

Appl. No. 09/890,687
Election/Amendment Dated Feb. 5, 2004
Reply to Notice of Feb. 23, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (currently amended) A three-piece golf ball comprising:

a core comprising a center and a ~~thread windings~~ layer, wherein said center has a compression in the range of about 60 PGA to 80 PGA and a weight in the range of about 27.5 grams to 28.5 grams, and wherein said ~~thread~~ windings layer has an unstressed thread dimension of about 0.020 inches to 0.028 inches by 1/16 of an inch, and has a ~~5000~~ modulus between 220 to 280 p.s.i.;

a cover having a Shore D hardness in the range of about 63 Shore D to about 69 Shore D; and

a plurality of dimples arranged on the outer surface, with a first pattern of dimples associated with each pentagon, a second pattern of dimples associated with each square, and a third pattern of dimples associated with each triangle.

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Claim 2 (currently amended) The golf ball of claim 1 wherein the center has a diameter in the range of about 1.34 to about 1.37 inches ~~1.340 to about 1.370 inches.~~

Claim 3 (original) The golf ball of claim 1 wherein the core has a weight in the range of about 34.5 grams to 35.5 grams.

Claim 4 (original) The golf ball of claim 1 wherein the has a compression in the range of about 60 PGA to about 80 PGA.

Claim 5 (original) The golf ball of claim 1 wherein the core has a diameter in the range of about 1.555 inches to about 1.575 inches.

Claim 6 (currently amended) The golf ball of claim 1 wherein the cover comprises a blend ~~of about 75% by weight~~ of a high resilience ionomer and ~~about 25% by weight of a~~ very low modulus ionomer, ~~wherein the high resilience ionomer is a copolymer of approximately 81% of an olefin with about 19% of an alpha, beta ethylenically unsaturated carboxylic acid, where acid groups of the high resilience ionomer are neutralized with a sodium ion,~~ and wherein the

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very low modulus ionomer is a terpolymer of ~~67-70%~~ by weight of ethylene, ~~20-21%~~ by weight of n-butyl acrylate, and ~~12%~~ by weight of methacrylic acid, where acid groups of the very low modulus ionomer are neutralized by a zinc ion.

Claim 7. (original) The golf ball of claim 1 wherein the cover has a thickness of in the range of about 0.052 inches to about 0.063 inches.

Claim 8. (original) The golf ball of claim 1 wherein the outer surface comprises a plurality of dimples arranged on the outer surface to form a dimple pattern, the plurality of dimples including

a first set of dimples, with each dimple in the first set having a single radius cross section;

a second set of dimples, with each dimple in the second set having a dual radius cross section; and

a third set of dimples, with each dimple in the third set having a single radius cross section.

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Claim 9 (currently amended) The golf ball of claim 8
wherein

the dimples in the first set of dimples have a
diameter in the range of 0.150 inches to 0.160 inches of
~~0.156 inches and a major radius of 0.4148 inches;~~

the dimples in the second set of dimples have a
diameter in the range of 0.140 inches to 0.150 inches of
~~0.145 inches, a major radius of 0.7874 inches, and a minor~~
~~radius of 0.1181 inches; and~~

the dimples in the third set of dimples have a
diameter in the range of 0.135 inches to 0.145 inches of
~~0.140 inches and a major radius of 0.3535 inches.~~

Claim 10 (currently amended) The golf ball of claim 8
wherein

the dimples in the first set of dimples have a
~~diameter in the range of 0.150 inches to 0.160 inches, and~~
a major radius in the range of 0.34 inches to 0.80 inches;

the dimples in the second set of dimples have a
~~diameter in the range of 0.140 inches to 0.150 inches, a~~
major radius in the range of 0.41 inches to 0.80 inches;
and a minor radius in the range of 0.10 inches to 0.12
inches; and

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the dimples in the third set of dimples have a
~~diameter in the range of 0.135 inches to 0.145 inches,~~ and
a major radius in the range of 0.34 inches to 0.80 inches.

Claim 11 (original) The golf ball of claim 8 wherein the outer surface is divided into a plurality of polygonal configurations which includes pentagons, squares and triangles, wherein a first pattern of dimples is associated with each pentagon, a second pattern of dimples is associated with each square, and a third pattern of dimples is associated with each triangle.

Claim 12 (original) The golf ball of claim 8 wherein the dimples in the first set of dimples have a different size than the dimples in the third set of dimples.

Claim 13 (original) The golf ball of claim 8 wherein the outer surface is divided into a polyhedron defined as a rhombicosadodecahedron and dimples are arranged using that pattern.

Claim 14 (original) The golf ball of claim 8 wherein the total number of dimples is at least 402.

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Claims 15-25 (canceled)

Claim 26 (new) A three-piece golf ball comprising:

a core comprising a center and a thread layer wound in an open winding pattern, wherein said center has a compression in the range of about 60 PGA to 80 PGA;

an ionomer cover blend having a Shore D hardness in the range of about 63 Shore D to about 69 Shore D; and

a plurality of dimples arranged on the outer surface, with a first pattern of dimples associated with each pentagon, a second pattern of dimples associated with each square, and a third pattern of dimples associated with each triangle.

Claim 27 (new) The golf ball of claim 26 wherein the blend further comprises:

a high modulus ionomer;

a low modulus ionomer; and,

a terpolymer.

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Claim 28 (new) The golf ball of claim 27 wherein the dimples in the first set of dimples have a diameter in the range of 0.150 inches to 0.160 inches;

the dimples in the second set of dimples have a diameter in the range of 0.140 inches to 0.150 inches; and

the dimples in the third set of dimples have a diameter in the range of 0.135 inches to 0.145 inches.

Claim 29 (new) The golf ball of claim 27 wherein the dimples in the first set of dimples have a major radius in the range of 0.34 inches to 0.80 inches;

the dimples in the second set of dimples have a major radius in the range of 0.41 inches to 0.80 inches; and a minor radius in the range of 0.10 inches to 0.12 inches;
and

the dimples in the third set of dimples have a major radius in the range of 0.34 inches to 0.80 inches.

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Claim 30 (new) A three-piece golf ball comprising:

a core comprising a center and a layer having a weight in the range of about 27.5 grams to 28.5 grams, and wherein said thread windings layer has an unstressed thread dimension of about 0.020 inches to 0.028 inches;

a cover having a Shore D hardness in the range of about 63 Shore D to about 69 Shore D; and

a plurality of dimples arranged on the outer surface, with a first pattern of dimples associated with each pentagon, a second pattern of dimples associated with each square, and a third pattern of dimples associated with each triangle.

Claim 31 (new) The golf ball of claim 30 wherein the outer surface is divided into a polyhedron defined as a rhombicosadodecahedron and dimples are arranged using that pattern.

Claim 32 (new) The golf ball of claim 30 wherein the thread has a 500% modulus between 220 to 280 p.s.i.

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Claim 33 (new) The golf ball of claim 30 wherein the dimples in the first set of dimples have a diameter in the range of 0.150 inches to 0.160 inches;

the dimples in the second set of dimples have a diameter in the range of 0.140 inches to 0.150 inches; and

the dimples in the third set of dimples have a diameter in the range of 0.135 inches to 0.145 inches.

Claim 34 (new) The golf ball of claim 30 wherein the dimples in the first set of dimples have a major radius in the range of 0.34 inches to 0.80 inches;

the dimples in the second set of dimples have a major radius in the range of 0.41 inches to 0.80 inches; and a minor radius in the range of 0.10 inches to 0.12 inches;
and

the dimples in the third set of dimples have a major radius in the range of 0.34 inches to 0.80 inches.

Claim 35 (new) The golf ball of claim 30 wherein the outer surface is divided into a polyhedron defined as a rhombicosadodecahedron and dimples are arranged using that pattern.